



# S H E P A R D B R O S. I N C .

## MATERIAL SAFETY DATA SHEET (MSDS)

### SECTION 1.

#### COMPANY AND PRODUCT IDENTIFICATION:

MANUFACTURER'S NAME: Shepard Bros., Inc.	EMERGENCY TELEPHONE NUMBER (Chemtrec): (800) 424 – 9300
ADDRESS: 503 S. Cypress St. La Habra, CA 90631	TELEPHONE NUMBER FOR INFO: (562) 697-1366
DATE PREPARED: 1/25/10	FAX NO. (562) 697-5786
PRODUCT NAME: <b>ACID #14</b>	DESCRIPTION: Acid cleaner

### SECTION 2.

#### HAZARDS IDENTIFICATION:

##### I. EMERGENCY OVERVIEW

\*Danger!\* Corrosive. Phosphoric acid and Nitric acid mixture is a strongly acidic oxidizing agent. Contact with other material may cause fire.

May cause severe respiratory tract irritation with possible burns. May cause severe digestive tract irritation with possible burns.

\*Target Organs: \*Eyes, skin, mucous membranes.

##### II. POTENTIAL HEALTH EFFECTS

**INHALATION:** Vapors and mists may severely damage contacted tissue and produce scarring. Exposure to high concentrations may cause pulmonary edema and pneumonia.

**SKIN CONTACT:** Direct contact may result in redness, swelling, burns and severe skin damage.

**EYE CONTACT:** Causes rapid tissue damage, which can lead to permanent damage.

**INGESTION:** Causes severe burning of mouth, throat and stomach.

**CHRONIC EFFECTS AND MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:** Chronic effects and medical conditions aggravated by overexposure to this product have not been established.

### SECTION 3.

#### COMPOSITION / INFORMATION ON INGREDIENTS:

The identity of individual components of this mixture is proprietary information and regarded to be a trade secret. However, based on the health hazard determination of ingredients present at a concentration greater than 1% and 0.1% or more of a carcinogenic substance, this mixture presents the following hazard:

HAZARDOUS COMPONENTS	% (RANGE)	CAS NO.	OSHA PEL (TWA)	ACGIH TLV (TWA)
Phosphoric Acid	5 – 10	7664-38-2	1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup> , 3 mg/m <sup>3</sup> (STEL)
Nitric Acid	20 – 30	7697-37-2	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup> , 4 mg/m <sup>3</sup> (STEL)



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### SECTION 4.

#### FIRST AID MEASURES:

**INHALATION:** Immediately move victim to fresh air. Give artificial respiration if breathing has stopped. Get medical attention immediately.

**SKIN:** Immediately flush the area with flowing water for at least 15 minutes, while removing contaminated clothing. Wash the area with a nonabrasive soap and plenty of water. Wash clothing separately before reuse.

**EYES:** Immediately flush with plenty of water, alternately lifting the upper and lower eyelids. If appropriate, after 5 minutes, remove contact lenses and continue flushing the eyes for an additional 15 minutes. Get medical attention if irritation persists.

**INGESTION:** Drink 2-3 glasses of water. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person. Get prompt medical attention.

### SECTION 5.

#### FIRE FIGHTING MEASURES:

**EXTINGUISHING MEDIA:** Foam, CO<sub>2</sub>, water fog, sand/earth

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Contact of this product with many metals can cause formation of flammable hydrogen gas.

**SPECIAL FIRE FIGHTING PROCEDURES:** Must wear NIOSH approved or equivalent self-contained breathing apparatus and protective clothing.

### SECTION 6.

#### ACCIDENTAL RELEASE MEASURES:

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Isolate area and eliminate all ignition sources. Wear appropriate protective equipment and clothing during clean-up. Neutralize with sodium carbonate or sodium bicarbonate then absorb with an inert material. Spill materials should be placed into suitable containers. Keep product out of sewers, watersheds, and water systems.

### SECTION 7.

#### HANDLING AND STORAGE:

**USAGE PRECAUTIONS:** Use as directed. Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice.

**STORAGE PRECAUTIONS:** Store in a cool area. Protect containers against damage. Keep closed until used. Store away from heat, sparks, open flame or sunlight. Keep out of reach of children.

**OTHER PRECAUTIONS:** Use only with adequate ventilation. Do not mix with chlorinated product.

### SECTION 8.

#### EXPOSURE CONTROLS AND PERSONAL PROTECTION:

**ENGINEERING CONTROLS:** Ensure adequate ventilation. Local exhaust is suggested for use in enclosed or confined areas.

**RESPIRATORY PROTECTION:** Avoid breathing vapors and mists. If ventilation is not sufficient to effectively prevent buildup of vapors or mists and the exposure limit is exceeded, use a NIOSH/MSHA approved respirator, with a full-facepiece or a full-facepiece respirator with organic vapor cartridges.

**SKIN PROTECTION:** Wear rubber, neoprene, or nitrile gloves, and chemically resistant protective clothing, e.g., apron, or jump-suit and rubber boots.

**EYE PROTECTION:** Wear chemical splash goggles and a full-face shield where there is potential for eye contact. An eyewash fountain should be located in areas where the product is used.



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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES:

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FLASH POINT: NA  
BOILING POINT: >212°F  
MELTING POINT: < 32°F  
VAPOR PRESSURE (mm Hg): ND  
% VOLATILE BY VOLUME: ND  
SPECIFIC GRAVITY (WATER=1): 1.213  
BULK DENSITY: ND  
APPEARANCE: Reddish liquid  
ODOR / TASTE: Sharp, pungent  
SOLUBILITY IN WATER: Complete  
pH at 25°C: Approx. 2  
VISCOSITY: ND

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### SECTION 10. STABILITY AND REACTIVITY:

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STABILITY               Unstable      X   Stable

INCOMPATIBILITY (*Materials to Avoid*): Chlorine or chlorine bleaches, strong alkalis and mild steel.

HAZARDOUS DECOMPOSITION PRODUCTS: High temperatures and fire conditions can result in the formation of toxic oxides of nitrogen and phosphorous.

HAZARDOUS POLYMERIZATION:        MAY OCCUR      X   WILL NOT OCCUR

CONDITIONS TO AVOID: High temperatures, flames, and incompatibles.

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### SECTION 11. TOXICOLOGICAL INFORMATION:

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Toxicological data is not available.

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### SECTION 12. ECOLOGICAL INFORMATION:

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Ecological data is not available.

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### SECTION 13. DISPOSAL CONSIDERATIONS:

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Collect and dispose of in accordance with Federal, State and Local laws and regulations.

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### SECTION 14. TRANSPORT INFORMATION:

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#### DOT

DOT Proper Shipping Name: Corrosive Liquids, Acidic, Inorganic, N.O.S., (Nitric Acid, Phosphoric Acid), 8, UN3264, PG II

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### SECTION 15. REGULATORY INFORMATION:

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This product is not considered a carcinogen or cancer suspect under NTP, IARC and OSHA.

SARA (Superfund Amendments and Reauthorization Act of 1986), Title III, Section 313 (Toxic Chemicals):  
Nitric Acid (7639-37-2) (RQ = 1,000 lb pure)

SARA (Superfund Amendments and Reauthorization Act of 1986), Title III, Section 302 (Extremely Hazardous Substances):  
Nitric Acid (7639-37-2) (RQ = 1,000 lb pure)



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**SUPERFUND REPORTABLE QUANTITY:** Nitric Acid (7639-37-2) (RQ = 1,000 lb pure)

**CALIFORNIA/OSHA DIRECTOR'S LIST OF HAZARDOUS SUBSTANCES (8 CCR 339):** Nitric Acid (7697-37-2), Phosphoric Acid (7664-38-2)

**CALIFORNIA PROPOSITION 65:** None

**Label:** Corrosive

**NFPA RATING:** Health: 3 Fire: 0 Reactivity: 1

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### SECTION 16. OTHER INFORMATION:

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**SUPERSEDES:** MSDS issued on 6/23/04

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NA: not applicable ND: not determined

Disclaimer: Information presented herein is believed to be accurate and reliable to the best of our knowledge. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process. Users should make their own investigations to determine the suitability of the information for their particular purposes.

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